

EXHIBIT 1

| | | | |
|--|-------------------------|----------------------------|---------------------|
| INTERAGENCY HELICOPTER | | MODEL | |
| LOAD CALCULATION | | N# | |
| OAS-67/FS 5700 (11/03) | | | |
| PILOT(S) | | DATE | |
| MISSION | | TIME | |
| 1 DEPARTURE | | PA | OAT |
| 2 DESTINATION | | PA | OAT |
| 3 HELICOPTER EQUIPPED WEIGHT | | | |
| 4 FLIGHT CREW WEIGHT | | | |
| 5 FUEL WT (_____ gallons X _____ lbs per gal) | | | |
| 6 OPERATING WEIGHT (3 + 4 + 5) | | | |
| | Non-Jettisonable | | Jettisonable |
| | HIGE | HOGE | HOGE-J |
| 7a PERFORMANCE REF (List page/chart from FM) | | | |
| 7b COMP GROSS WT (FM performance Section) | | | |
| 8 WT REDUCTION (Req for all Non-Jettisonable) | | | |
| 9 ADJUSTED WEIGHT (7b minus 8) | | | |
| 10 GROSS WT LIMIT (FM Limitations Section) | | | |
| 11 SELECTED WEIGHT (Lowest of 9 or 10) | | | |
| 12 OPERATING WEIGHT (From Line 6) | | | |
| 13 ALLOWABLE PAYLOAD (11 minus 12) | | | |
| 14 PASSENGERS/CARGO MANIFEST | | | |
| | | | |
| | | | |
| | | | |
| 15 ACTUAL PAYLOAD (Total of all weights listed in Item 14) Line 15 must not exceed Line 13 for the intended mission. | | | |
| PILOT SIGNATURE | | | |
| MGR SIGNATURE | | HazMat Yes ____ No ____ | |

INTERAGENCY HELICOPTER LOAD CALCULATION INSTRUCTIONS

A load calculation must be completed for all flights. A new calculation is required when operating conditions change ($\pm 1000'$ in elevation or $\pm 5^{\circ}\text{C}$ in temperature) or when the Helicopter Operating Weight changes (such as changes to the Equipped Weight, changes in flight crew weight or a change in fuel load).

All blocks must be completed. Pilot must complete all header information and Items 1-13. Helicopter Manager completes Items 14 & 15.

1. DEPARTURE – Name of departure location and current Pressure Altitude (PA, read altimeter when set to 29.92) and Outside Air Temperature (OAT, in Celsius) at departure location.

2. DESTINATION – Name of destination location and PA & OAT at destination. If destination conditions are unknown, use MSL elevation from a map and Standard Lapse Rate of $2^{\circ}\text{C}/1000'$ to estimate OAT.

Check the box in Line 1 (Departure) or Line 2 (Destination) to indicate the most restrictive values used to obtain Computed Gross Weight in Line 7b.

3. HELICOPTER EQUIPPED WEIGHT – Equipped Weight equals the Empty Weight (as listed in the Weight and Balance Data) plus the weight of lubricants and onboard equipment required by contract (i.e. survival kit, rappel bracket).

4. FLIGHT CREW WEIGHT – Weight of the Pilot and any other assigned flight crewmembers on board (i.e. Co-pilot, flight engineer, navigator) plus the weight of their personal gear.

5. FUEL WEIGHT – Number of gallons onboard **X** the weight per gallon (**Jet Fuel = 7.0 lbs/gal**; AvGas = 6.0 lbs/gal).

6. OPERATING WEIGHT – Add items 3, 4 and 5.

7a. PERFORMANCE REFERENCES – List the specific Flight Manual supplement and **hover performance** charts used to derive Computed Gross Weight for Line 7b. Separate charts may be required to derive HIGE, HOGE and HOGE-J. **HIGE**: use Hover-In-Ground-Effect, External/Cargo Hook Chart (if available). **HOGE & HOGE-J**: use Hover-Out-Ground-Effect charts for all HOGE operations.

7b. COMPUTED GROSS WEIGHT - Compute gross weights for HIGE, HOGE and HOGE-J from appropriate Flight Manual **hover performance** charts using the Pressure Altitude (PA) and temperature (OAT) from the most restrictive location, either Departure or Destination.

Check the box in Line 1 (Departure) or Line 2 (Destination) to indicate which values were used to obtain Computed Gross Weight.

8. WEIGHT REDUCTION – **The Government Weight Reduction is required for all “non-jettisonable” loads.** The Weight Reduction is optional (mutual agreement between Pilot and Helicopter Manager) when carrying jettisonable loads (HOGE-J) where the pilot has total jettison control. The appropriate Weight Reduction value, for make & model, can be found in the current helicopter procurement document (contract).

9. ADJUSTED WEIGHT – Line 7b minus Line 8.

10. GROSS WEIGHT LIMITATION – Enter applicable gross weight limit from **Limitations section** of the basic Flight Manual or the appropriate Flight Manual Supplement. This may be Maximum Gross Weight Limit for Take-Off and Landing, a Weight/Altitude/Temperature (WAT) limitation or a Maximum Gross Weight Limit for External Load (jettisonable). Limitations may vary for HIGE, HOGE and HOGE-J.

11. SELECTED WEIGHT – **The lowest weight, either line 9 or 10, will be entered for all loads.** Applicable limitations in the Flight Manual must not be exceeded.

12. OPERATING WEIGHT – Use the value entered in Line 6.

13. ALLOWABLE PAYLOAD – Line 11 minus Line 12. The maximum allowable weight (passengers and/or cargo) that can be carried for the mission. Allowable Payload may differ for HIGE, HOGE and HOGE-J.

14. PASSENGERS AND/OR CARGO – Enter passenger names and weights and/or type and weights of cargo to be transported. Include mission accessories, tools, gear, baggage, etc. A separate manifest may be used.

15. ACTUAL PAYLOAD – Total of all weights listed in Item 14. Actual payload must not exceed Allowable Payload for the intended mission profile, i.e. HIGE, HOGE or HOGE-J.

Both Pilot and Helicopter Manager must review and sign the form. Check if HazMat is being transported. Manager must inform the pilot of type, quantity and location of HazMat onboard.